Panasonic

Editing Controller

VW-EC1E

- Operating Instructions
- Bedienungsanleitung
- Mode d'emploi
- Instrucciones de funcionamiento

Before attempting to connect, operate or adjust this product, please read these instructions completely.

VQT5076-2

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Information for your safety

IMPORTANT

Your attention is drawn to the fact that recording of pre-recorded tapes or discs or other published or broadcast material may infringe copyright laws.

WARNING

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

FOR YOUR SAFETY

■ **DO NOT REMOVE THE OUTER COVER.**

To prevent electric shock, do not remove the cover. There are no user serviceable parts inside. Refer servicing to qualified service personnel.

Features

You are probably familiar with the scenes you have recorded while on holidays or with the scenes starring your family. But, how does watching these video cassettes compare to the memories you have of the events?

While unedited video cassettes contain every detail, they often contain repetitive and other unwanted scenes as well. Editing the cassettes makes it possible to arrange the scenes in any desired sequence and leave out all unwanted parts so you can tell the story the way you like.
This is the pleasure of editing video cassette tapes.

■ As Compact as a VHS Cassette Tape

With its sleek, compact design, this Editing Controller fits neatly into any slot of a cassette rack for VHS cassette tapes.

■ Simple Editing Operation

The following two editing methods make your editing tasks easy and convenient:

• Programme Editing

This method allows you to specify the editing start and end points of up to four scenes and lets you perform the actual editing onto the new video cassette at the push of a single button.

• Single-Cut Editing

With this method you locate each desired scene in the sequence and transfer it to the new video cassette, one scene at a time.

■ Almost Any VTR Can Be Used as Recording Unit

It is possible to use not only Panasonic brand VTRs, but also VTRs of many others brands, provided they are equipped with infrared remote control.

Compatible Equipment

Playback Unit

Only Movie Cameras or VTRs which are equipped with an Edit Socket (as in the illustration below) can be used as playback unit with this Editing Controller.

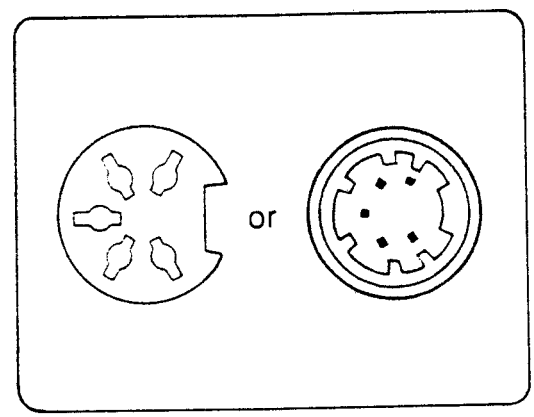
Equipment	Limited to Equipment with the Following Terminals
VHS-C Movie Cameras	Edit Socket, Edit Ⓔ Socket
Full-Size VHS Movie Cameras	Edit Socket
Table-Type VTRs	Edit Socket, Edit Ⓔ Socket

- In these Operating Instructions, a VHS-C Movie Camera is used as playback unit for the examples.

Edit Ⓔ Socket

When editing from a Movie Camera equipped with Edit Ⓔ Socket, connecting the Editing Controller to this socket will result in higher editing precision.

- When there is a cover on the Edit socket of the playback unit to be connected, first remove the cover. When the power is turned on in connected equipment, the Display Panel on this unit lights up.



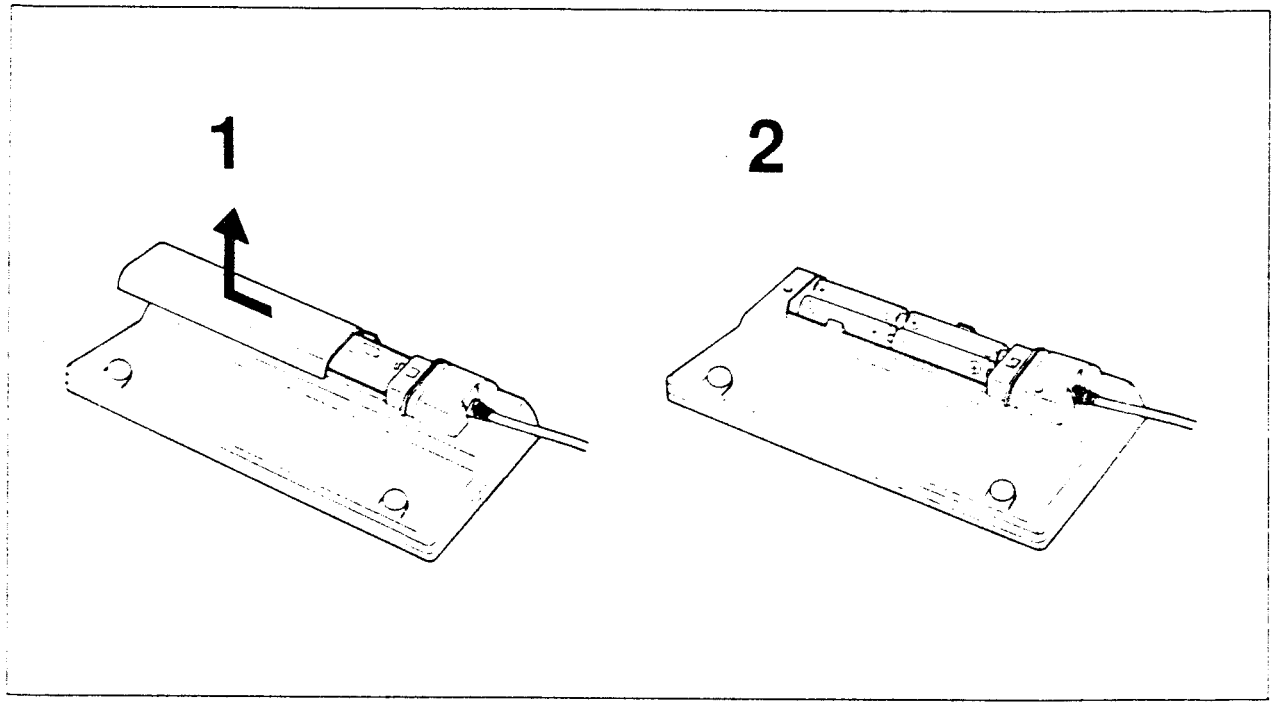
Recording Unit

Equipment	Conditions
Panasonic VTR	Must have infrared remote control
Other brand VTRs	Must have infrared remote control

For connections, see the descriptions starting on page 7.
Connect a TV set (monitor) to the recording unit.

Before Using the Editing Controller

Inserting the Batteries



1 Slide the Cover off as shown.

2 Insert the batteries.
- Make sure to insert the batteries with their polarities aligned as indicated.

3 Reattach the cover.

■ Battery Service Life

When the batteries become exhausted, the " ▯ " Indication will flash. Replace them right away. The service life of the batteries is about 1 year, however the actual service life greatly depends on how often and how long the Editing Controller is used.
- It is recommended to use R6P type, AA size batteries.

■ Precautions for Replacing the Batteries

The batteries used in this unit are needed for memorising the remote control signals, the brand number setting and start-up and stop-time compensation values as well as for transmitting the infrared signals to control the recording unit.

To prevent the memorised contents from being erased, it is recommended to replace the batteries while the Editing Controller is connected with the Playback Unit Connection Cable to the playback unit and while the playback unit is turned on.

If the playback unit is not connected with the Playback Unit Connection Cable, the memorised remote control signals and other Editing Controller settings may be erased.

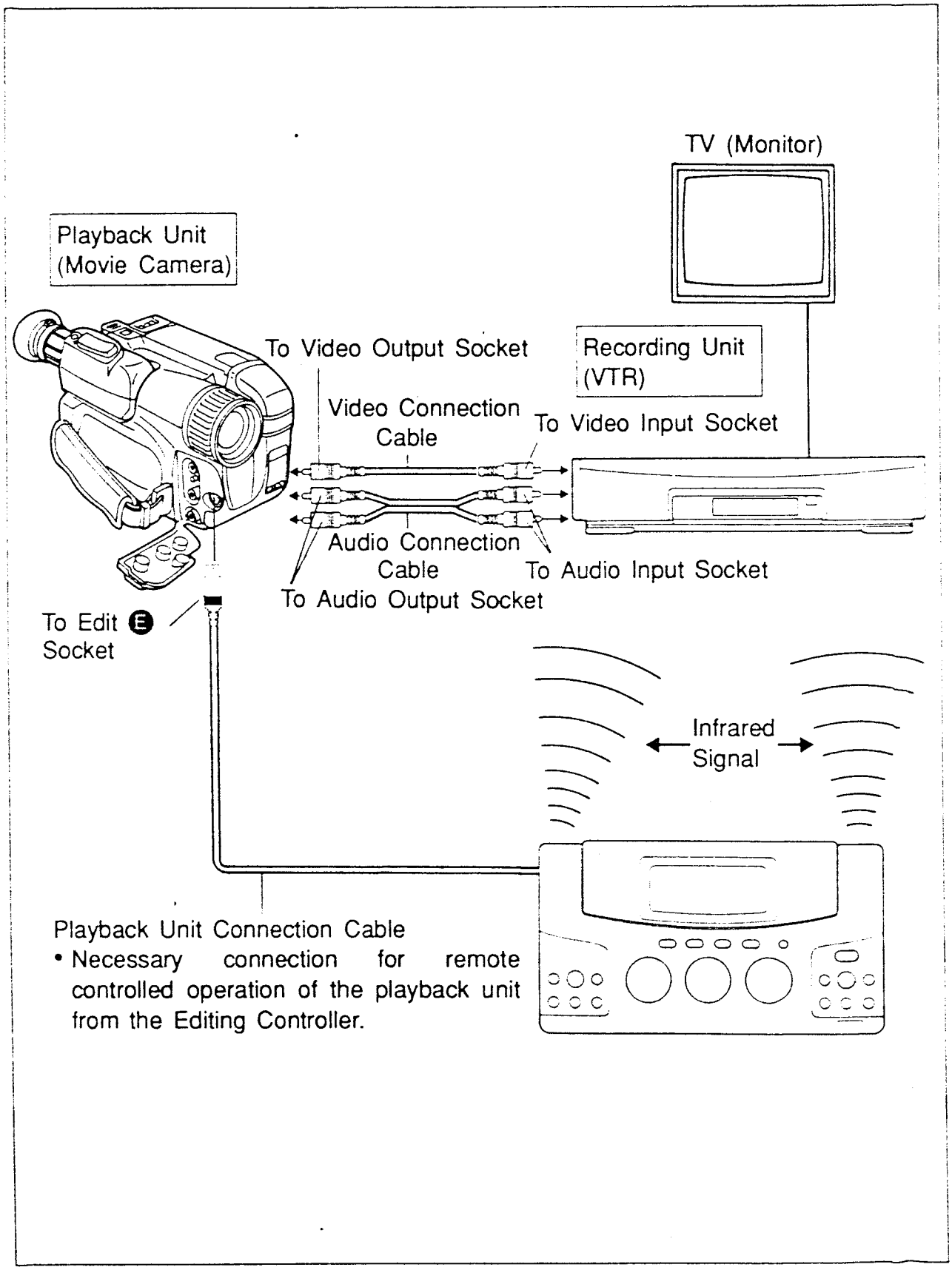
If the batteries are allowed to completely run down during use, the memorised data will be erased. In this case, enter the data again from the beginning.

■ Precautions for Handling the Batteries

- Do not use rechargeable batteries (Ni-Cd).
- Do not mix old batteries with new batteries, and do not mix different types of batteries.
- Do not charge or short-circuit the batteries.
- Do not tamper with the batteries or heat them. Do not throw them into a fire.
- When the unit will not be used for a very long period of time, remove the batteries from the battery compartment.
- If the batteries leak, wipe the inside of the battery compartment clean and then insert new batteries.

Connections

Read the respective operating instructions for the equipment to be connected.



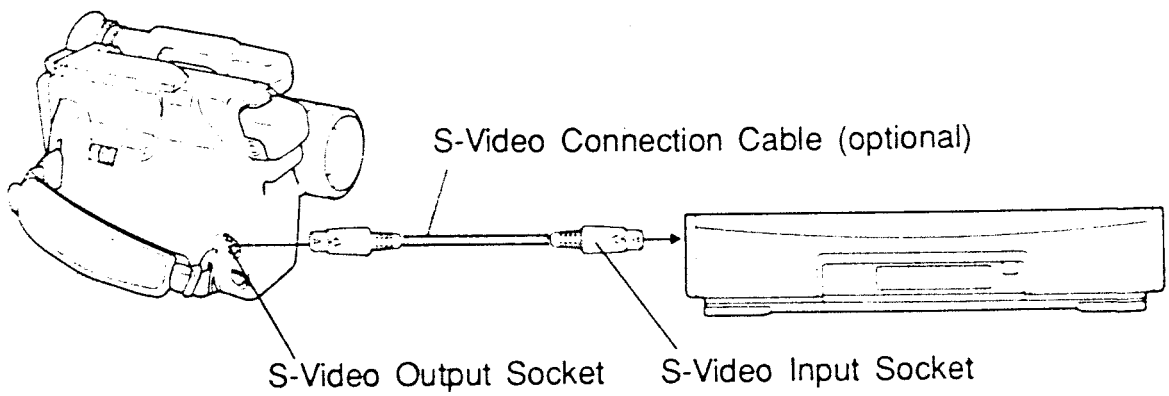
■ Colour Coding of Connection Cable Plugs and Connection Sockets

Yellow....Video signal
White.....Audio signal (Left Channel)
Red.....Audio signal (Right Channel)

- When the playback unit or recording unit is monaural, connect the yellow plug to the Video Socket and only the white plug to the Audio Socket.

■ When both the playback unit and the recording unit are equipped with an S-Video socket

It is recommended to use an S-Video connection cable (optional) instead of the Video Connection Cable, in order to achieve optimum picture quality. (For the audio signal, the Audio Connection Cable needs to be connected.)



■ Input Selector Switch on the Recording Unit

Use the Input Selector Switch on the recording unit to select the Input Sockets (LINE 1 or LINE 2) to which the playback unit its connected.

■ Notes:

The Editing Controller controls the playback unit with infrared remote control signals. Be careful not to block the path between the infrared receiver on the VTR and the infrared transmitter on this unit.

■ Check after Connecting

When turning on the playback unit (Movie Camera) after making the connections, the Display Panel of this unit lights up.

- Make sure that the " " Indication is not flashing.
- If this indication is flashing, the batteries are not installed or they are exhausted. In this condition, it is not possible to transmit the infrared remote control signals to the recording unit. Insert new batteries. (See page 5.)

■ Note:

Even if the playback unit and/or the recording unit can be powered with a battery pack, do not do so. Supply power to these units with AC adapters. Otherwise the editing operation may be interrupted if a battery packs becomes exhausted during editing.

Before Editing

Editing Modes

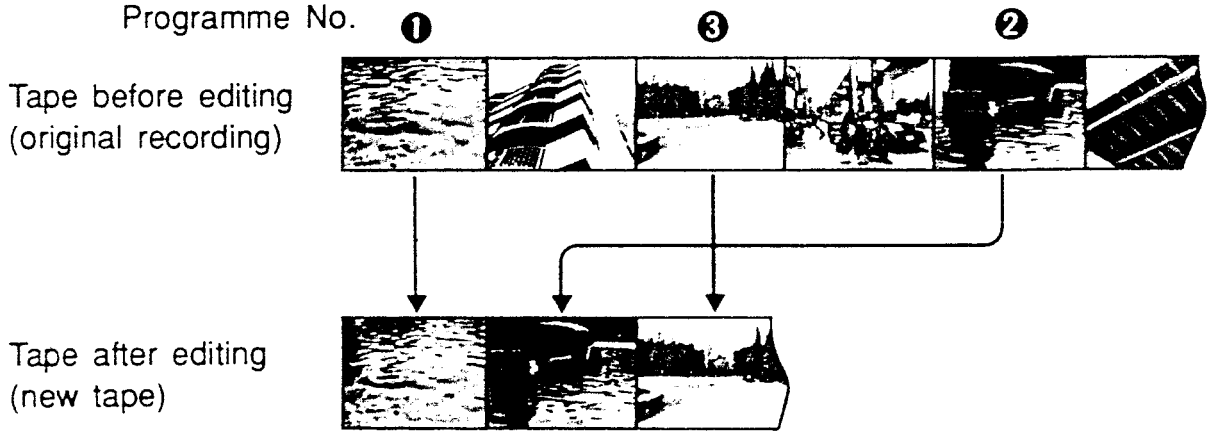
This Editing Controller offers two editing modes.

In Programme Editing, the decision which parts of the original tape to edit and in which order, and which parts not to use directly influences the quality of the editing result.

Therefore, it is recommended to watch the tape thoroughly, examine the scenes you want closely, and take careful notes of their start and end points as well as their length and their desired order before beginning to edit.

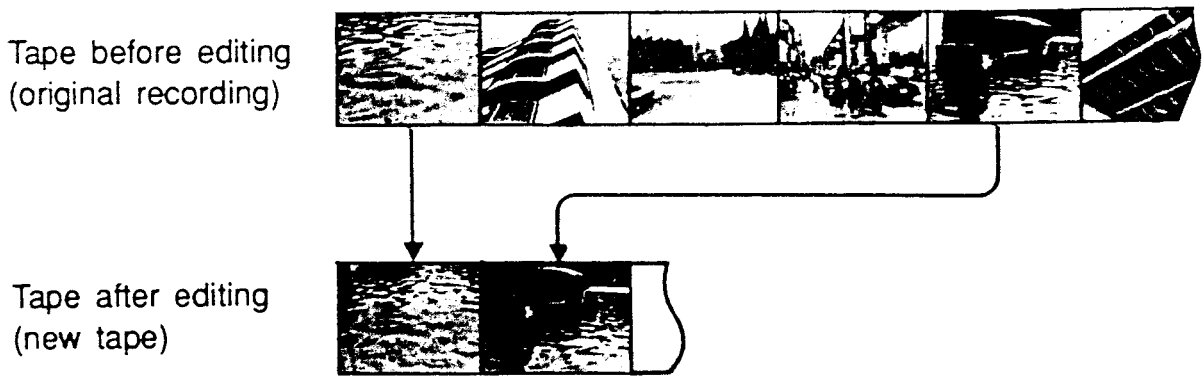
Programme Editing:

Up to 4 scenes with specified edit points can be edited automatically in a single operation (see page 12).



Single-Cut Editing:

The selected scenes are located and copied onto the new tape, one scene at a time (see page 18).



Before editing, please perform the following checks:

■ Connections (page 7)

- Is the playback unit (Movie Camera) connected to the video and audio sockets of the recording unit (VTR)?
- Is the playback unit connected to the Editing Controller?

■ Settings on the Playback Unit (Movie Camera)

- Is the original tape that you want to edit loaded in the playback unit?
- If the playback unit is equipped with an editing switch, set it to "ON". (This will minimise degradation of the picture quality.)
- Is the operation switch of the playback unit set to "VTR"?

■ Settings on the Recording Unit (page 29–37)

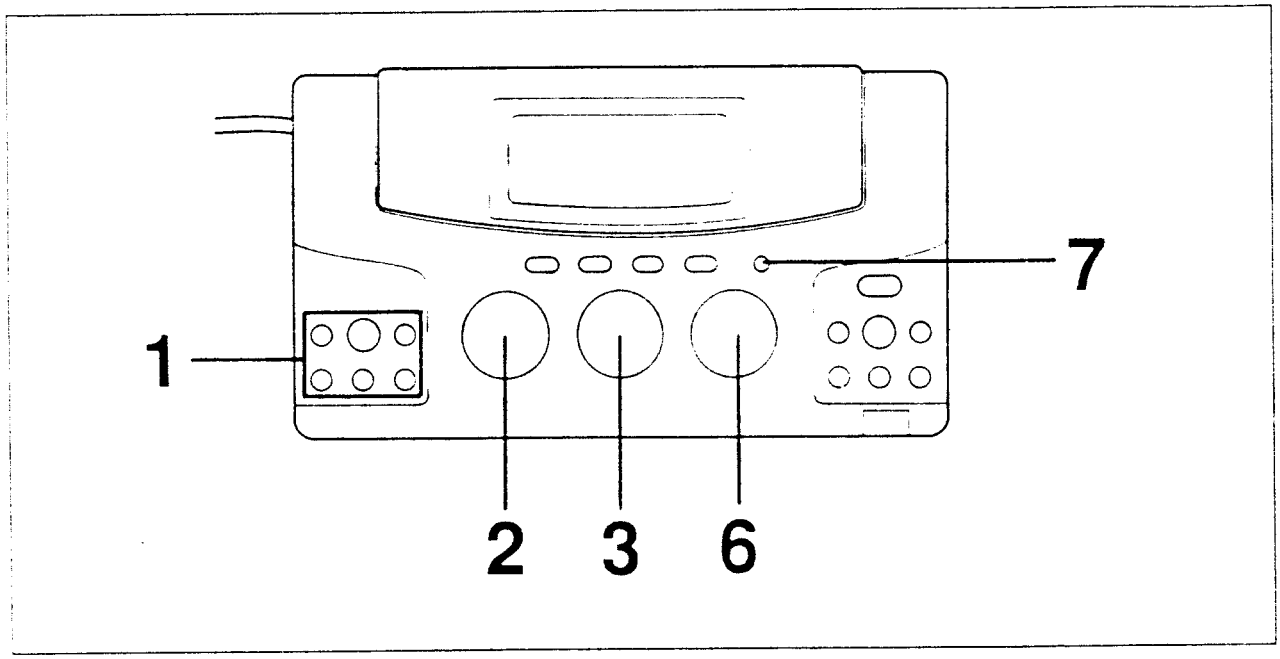
- Is the recording unit properly set for remote controlled operation from the Editing Controller?
- Is the Tuner/Line Input Selector Switch set to "LINE"?
- Is a tape with the erase prevention tab loaded in the recording unit?
- If the recording unit is equipped with an edit switch, set it to "ON". (This will minimise degradation of the picture quality in editing.)
- Make all necessary preparations on the recording unit such as selecting the recording mode and audio recording level (for more details, read the operating instructions of the VTR.)

■ Cautions

If a VTR is used as playback unit and the same remote control mode as that for the recording unit were selected, the infrared signal controlling the recording unit would also control the playback unit. Therefore, select a remote control mode that is different from that of the recording unit.

Editing Several Scenes in One Go (Programme Editing)

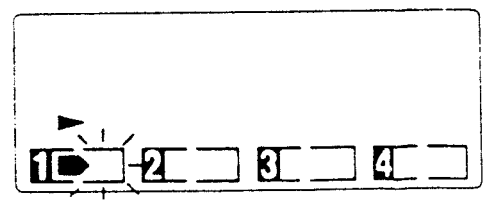
After specifying the start and end points of up to four scenes, they can be edited automatically and in the desired order at the push of a single button.



1 **Use the control buttons for the playback unit to locate the starting point of a scene you want to edit.**

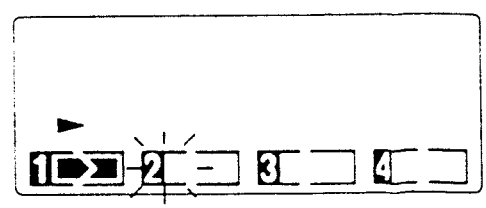
2 **Press the [CUT IN] Button when the tape is at the starting point of that scene.**

- The starting point for Programme 1 is now programmed.



3 **Locate the end of the scene and press the [CUT OUT] Button at that point.**

- The end point for Programme 1 is now programmed.
- The minimum length of a scene to be edited is one (1) second.

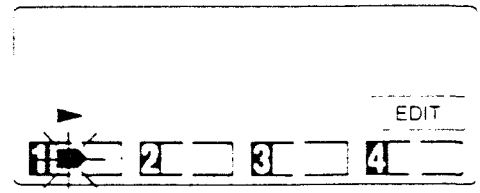


4 **To edit additional scenes (cuts), repeat steps 2 and 3.**

- Up to 4 separate cuts can be programmed.

5 **Locate the position of the tape in the recording unit at which the editing is to start, and then put the recording unit in the recording pause mode.**

6 Press the [EDIT START/STOP] Button.



- The "EDIT" Indication lights up, and the actual editing starts.
- The specified cuts are transferred, in numerical order, starting with Programme 1.
- After all programmed cuts have been edited, the "EDIT" Indication goes out, and the playback unit is put in the still playback mode.

7 After the programmed cuts have been edited, press the [CANCEL] Button on the Editing Controller for at least 2 seconds.

- All of the programme settings will be erased.
- Turning off the playback unit (Movie Camera), or disconnecting the Playback Unit Connection Cable from the playback unit also causes the programmes to be erased.

■ To Increase the Editing Precision

It is recommended to perform the Start-up Compensation Adjustment (see page 20) before editing.

■ To Continue Programme Editing

Repeat steps 1–7.

■ To Edit in Any Desired Order

For example, when you want the fourth scene on the original tape to be placed as the first scene on the new tape, press the [PROGRAM] Button 4 before performing step 2. (The editing always starts with Programme 1 and proceeds in order through Programme 4.)

■ To Stop Editing in the Middle of a Transfer

Press the [EDIT START/STOP] Button.
(The recording unit is now in the recording pause mode.)

■ To Resume Editing Halfway

Perform operation step 4, press one of the Programme Buttons 2, 3 and 4, and then press the [EDIT START/STOP] Button to resume editing.

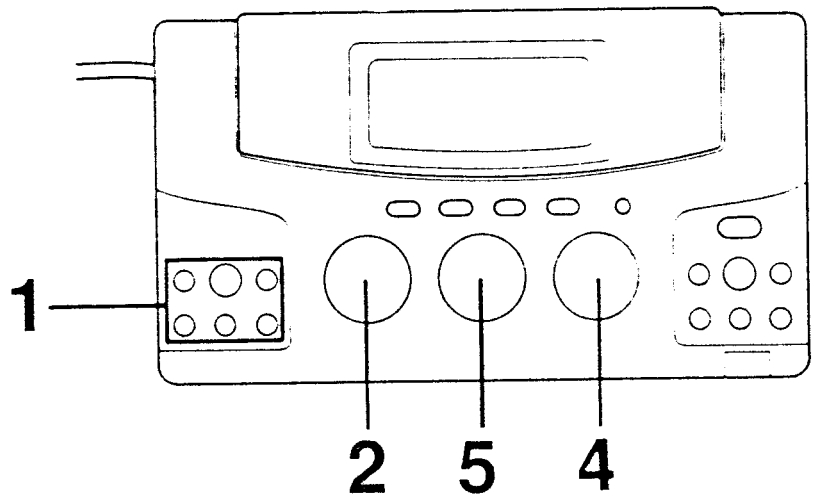
- For example, if you press the [PROGRAM] Button 3, Programmes 1 and 2 will be skipped, and Programme 3 (and Programme 4, if it has been programmed) will be transferred. (The programme settings remain in memory until they are cancelled by pressing the [CANCEL] Button.)

■ If the Recording Unit Cancels the Pause Mode by Itself

After a prolonged pause, many VTRs will automatically cancel the recording pause mode to protect the tape and the video heads. If this happens, put the VTR back in the recording pause mode.

Editing without first determining the end point of a scene.

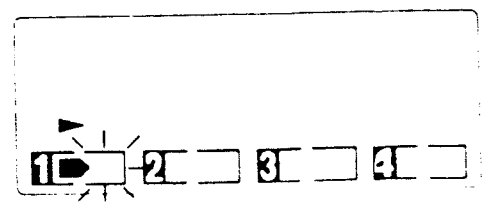
When a transfer is started without first programming the end point of the scene. the recording continues until you press the Edit End Button.



1 Use the control buttons for the playback unit to locate the starting point of a scene you want to edit.

2 **Press the [CUT IN] Button when the tape is at the starting point of that scene.**

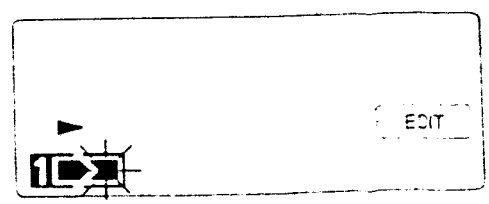
- The starting point for Programme 1 is now be memorised.



3 **At the point where you want to start the editing, put the recording unit into the recording pause mode.**

4 **Press the [EDIT START/STOP] Button.**

- The "EDIT" Indication lights up, and the actual editing begins.



5 **Press the [CUT OUT] Button at the point where you want to stop the editing.**

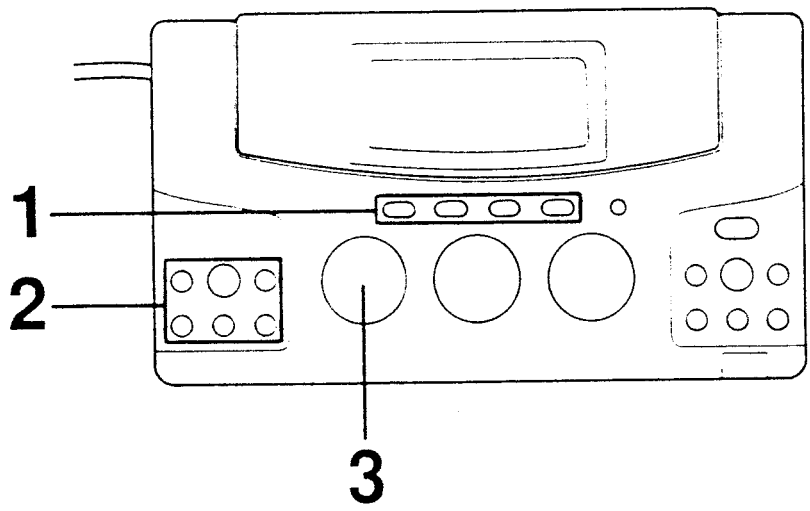
- The recording unit is now in the pause mode.

■ Note:

This type of editing is only possible for Programme 1 alone or for the last programmed cut (for example, Programme 3 when Programmes 1–3 have been set.)

Changing a Programmed Starting Point

Changing the starting point of a previously programmed cut.



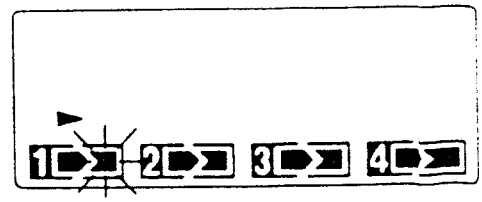
1 Press the [PROGRAM] Button (1–4) for the cut you want to change.

2 Use the control buttons for the playback unit to locate the new starting point for the cut to be edited.

3 Press the [CUT IN] Button.
- The new starting point is now memorised.

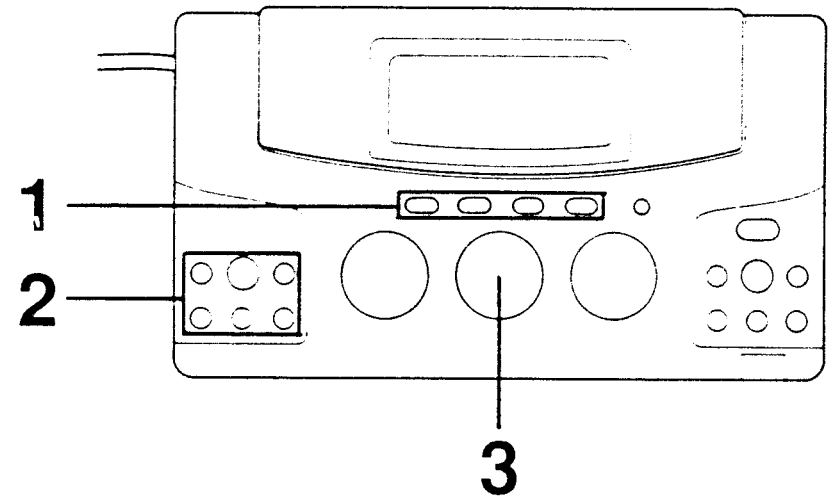
■ Note:

If the new starting point is after the already programmed end point of the same cut (Programme), or if the time between the two points is less than one second, the display will flash, as shown in the illustration. In this case, change the end point.



Changing a Programmed End Point

Changing the end point of a previously programmed cut.



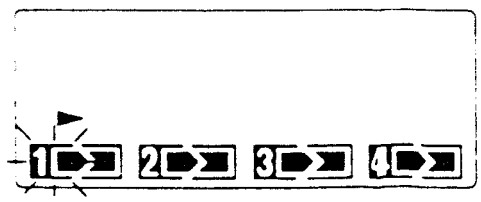
1 **Press the [PROGRAM] Button (1–4) for the cut you want to change.**

2 **Use the control buttons for the playback unit to locate the new end point for the cut to be edited.**

3 **Press the [CUT OUT] Button.**
- The new end point is now memorised.

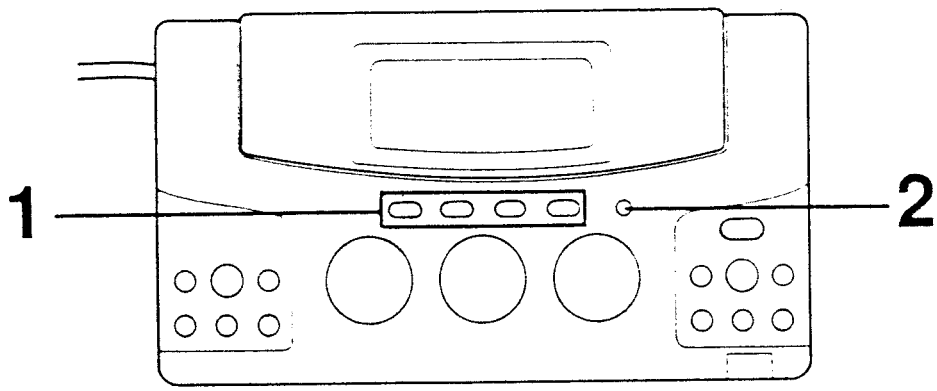
■ Note:

If the new end point is before the already programmed starting point of the same cut (Programme), or if the time between the two points is less than one second, the display will flash, as shown in the illustration. In this case, change the starting point.



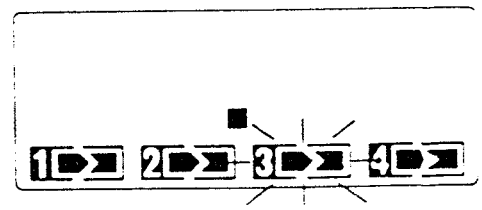
Cancelling Editing Programmes

Unwanted cuts that have already been programmed can be cancelled.



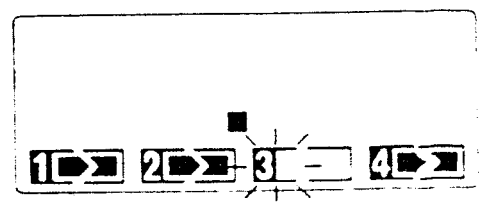
1 **Press the [PROGRAM] Button (1–4) for the programme number you want to cancel.**

- The illustration on the right shows the display after pressing Programme Button 3.



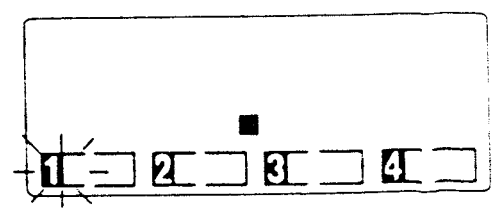
2 **Press the [CANCEL] Button.**

- When Programme Editing is performed after cancelling Programme 3, for example, Programme 4 will be edited immediately after Programme 2.



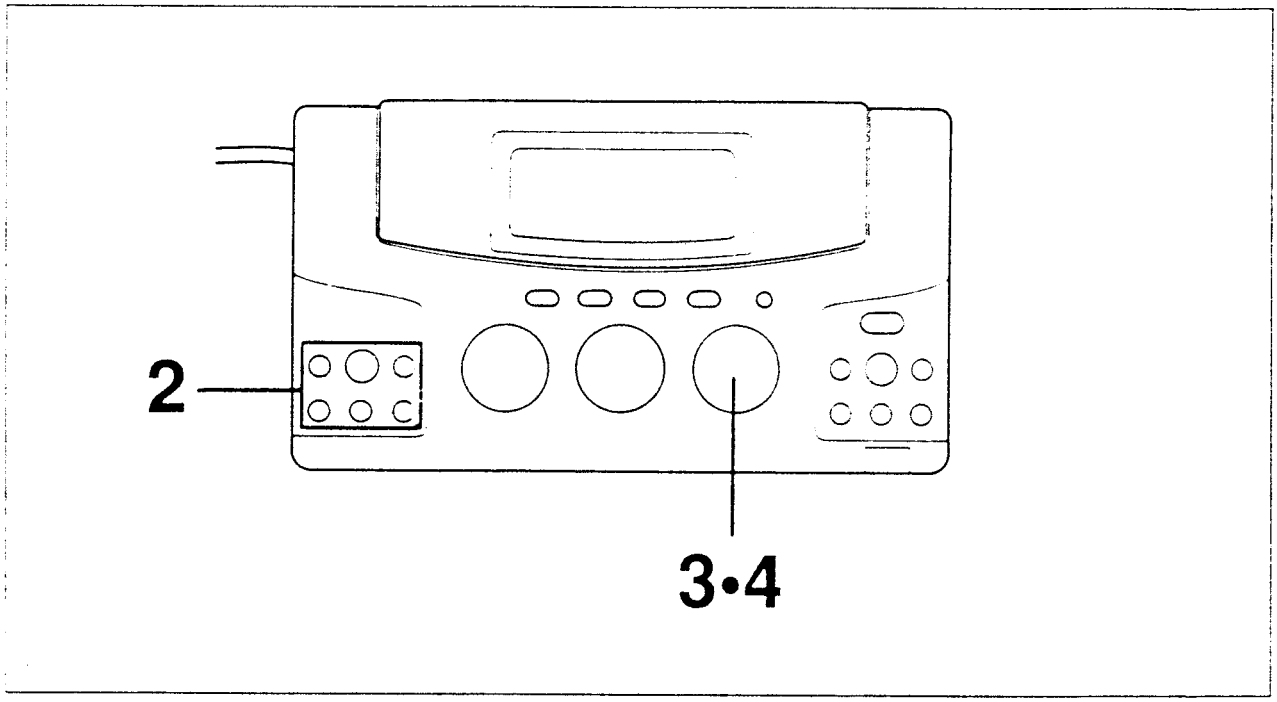
■ Cancelling All Editing Programmes at Once

Hold down the [CANCEL] Button for at least 2 seconds.



Editing Single Cuts One by One (Single-cut Editing)

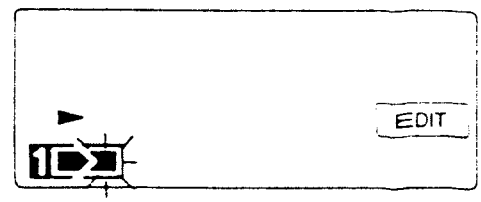
With this method, the editing of desired cuts is performed by using only the Editing Button while watching the playback picture from the playback unit.



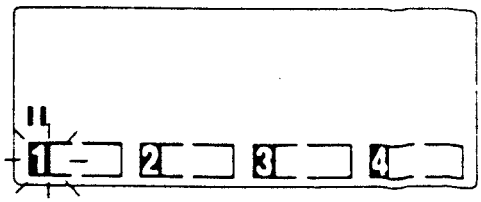
1 **At the position of the tape in the recording unit at which the editing is to start, put the recording unit in the recording pause mode.**

2 **Use the control buttons for the playback unit to move the tape to a point a little before the starting point of the scene you want, and then put the playback unit in the playback mode.**

3 **While the playback is continuing, press the [EDIT START/STOP] Button as soon as the starting point of the scene to be edited is reached.**



4 **Press the [EDIT START/STOP] Button again when you want to stop the editing.**
While the " ⧓ " Indication is flashing, it is not possible to stop the editing.



■ Editing Additional Scenes

Repeat steps 1–3 for each cut.

■ To Increase the Editing Precision

It is recommended to perform the Start-up Compensation Adjustment (see page 20) before editing.

■ If the Recording Unit Cancels the Pause Mode by Itself

After a prolonged pause, many VTRs will automatically cancel the recording pause mode to protect the tape and the video heads. If this happens, put the VTR back in the recording pause mode.

■ If the tape counter of the playback unit (Movie Camera) is a 4-digit counter, it is recommended to edit individual cuts one by one.

(This provides more precise editing than programme editing.)

■ Note:

If the Editing Controller has been programmed for one or more cuts, single-cut editing cannot be performed. In this case, press the [CANCEL] Button to cancel all of the programmes (see page 17).

For Increased Editing Precision

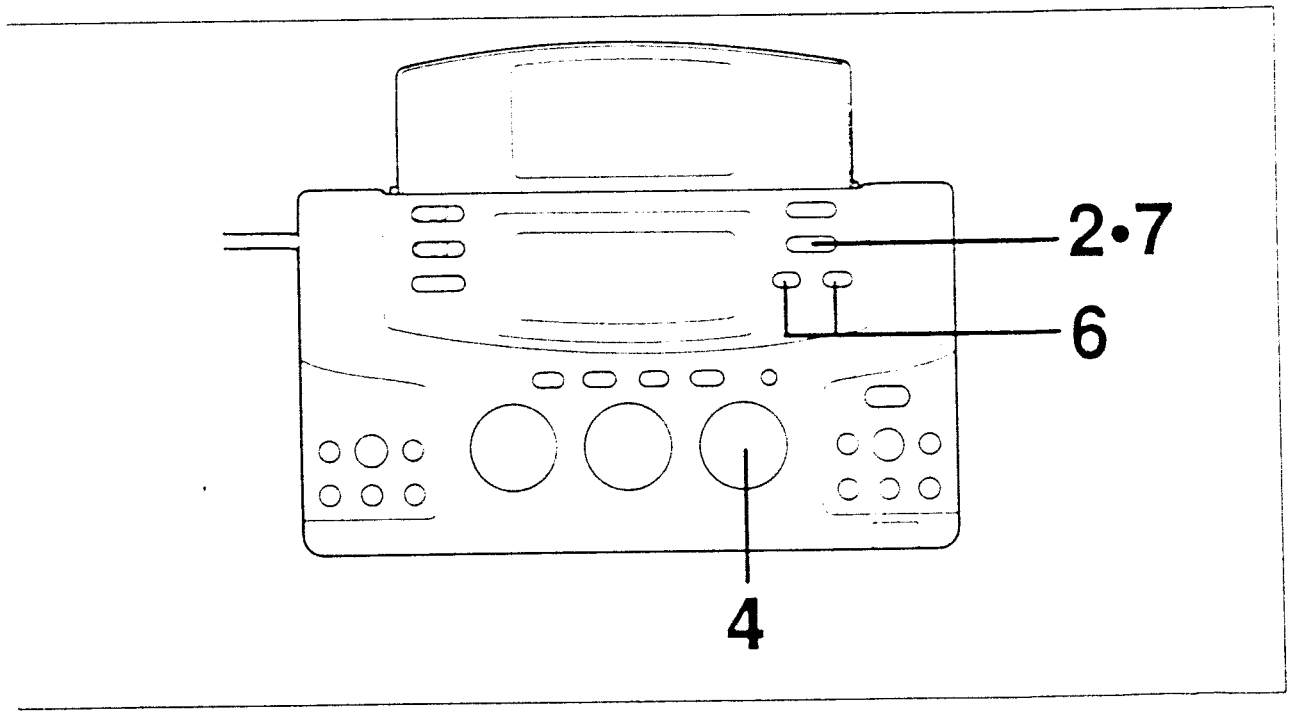
Synchronising the recording start on the recording unit with the playback start on the playback unit (start-up compensation).

When the editing is started, the playback unit starts to play back the tape with the original recording. On the recording unit, the recording pause mode is cancelled and the recording begins. However, since there is a small delay before the recording unit actually begins recording, the beginning of the scene to be edited may not be recorded on the tape in the recording unit.

The start-up compensation adjustment causes the recording unit to be started slightly ahead of the playback unit to offset the delay time. This adjustment is not necessary for all VTRs. However, to ensure precise editing exactly from the beginning of the desired scene, it is recommended to perform this adjustment.

Start-up Compensation Adjustment

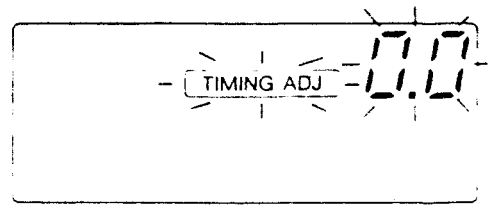
The start-up adjustment consists of two steps: First, determining the start-up delay of the recording unit and second, entering this start-up time into the Editing Controller.



1 **Insert a video cassette with intact erasure prevention tab into the recording unit and put it in the recording pause mode.**

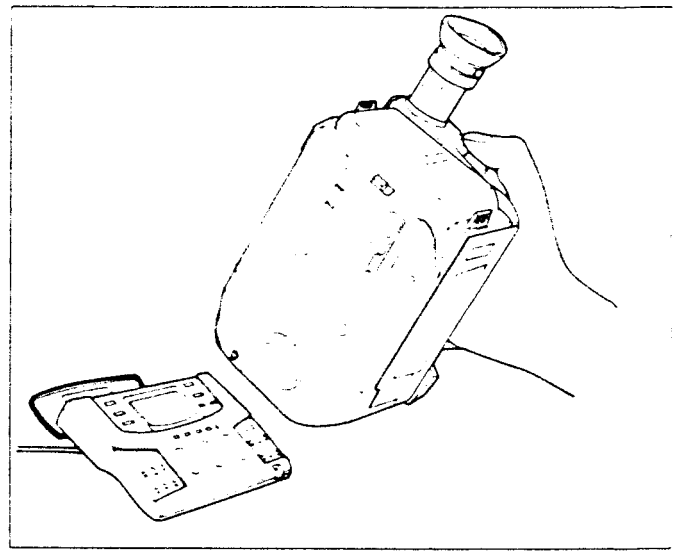
- Do not use a cassette tape on which important scenes are recorded, because it is necessary to record the Display of the Editing Controller for several seconds to perform the start-up and stop-time compensation.

2 Press the [TIMING ADJ.] Button.



- The "TIMING ADJ." Indication and the "0.0" Counter Indication flash.
  If the start-up compensation value has been previously set, the current value will be displayed in the counter.

3 Set the operation switch (power switch) on the Movie Camera to the "CAMERA" position. Put the Movie Camera in the macro shooting mode, and focus on the Counter Indication in the Editing Controller's Display Panel.



- For more details about focusing, read the operating instructions of the Movie Camera.

4 Press the [EDIT START/STOP] Button on the Editing Controller after making the adjustments described in step 3.

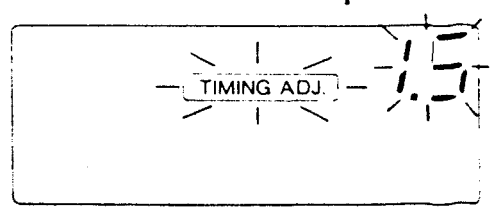
- The counter will display the time from "0.0" seconds to "3.0" seconds which will be recorded by the recording unit.

5 Use the still advance function to play back the recording made by the recording unit and check whether the recording starts at "0.0".

- If the recording starts with "0.0", then the start-up compensation adjustment is not necessary.

6 If the first frame of the recording does not show "0.0", use the [ADJUST + or –] Button to set the counter in the Editing Controller to the value that is first recorded on the test tape.

- For example, if the first frame of the recording shows the counter already at "1.5" seconds, set the start-up compensation value to "1.5".



7 Press the [TIMING ADJ.] Button.

- The start-up compensation value has now been memorised.
  This start-up compensation value remains memorised until the batteries become exhausted or replaced, or until the value is newly set.

Synchronising the recording stop on the recording unit with the playback stop on the playback unit (stop-time compensation).

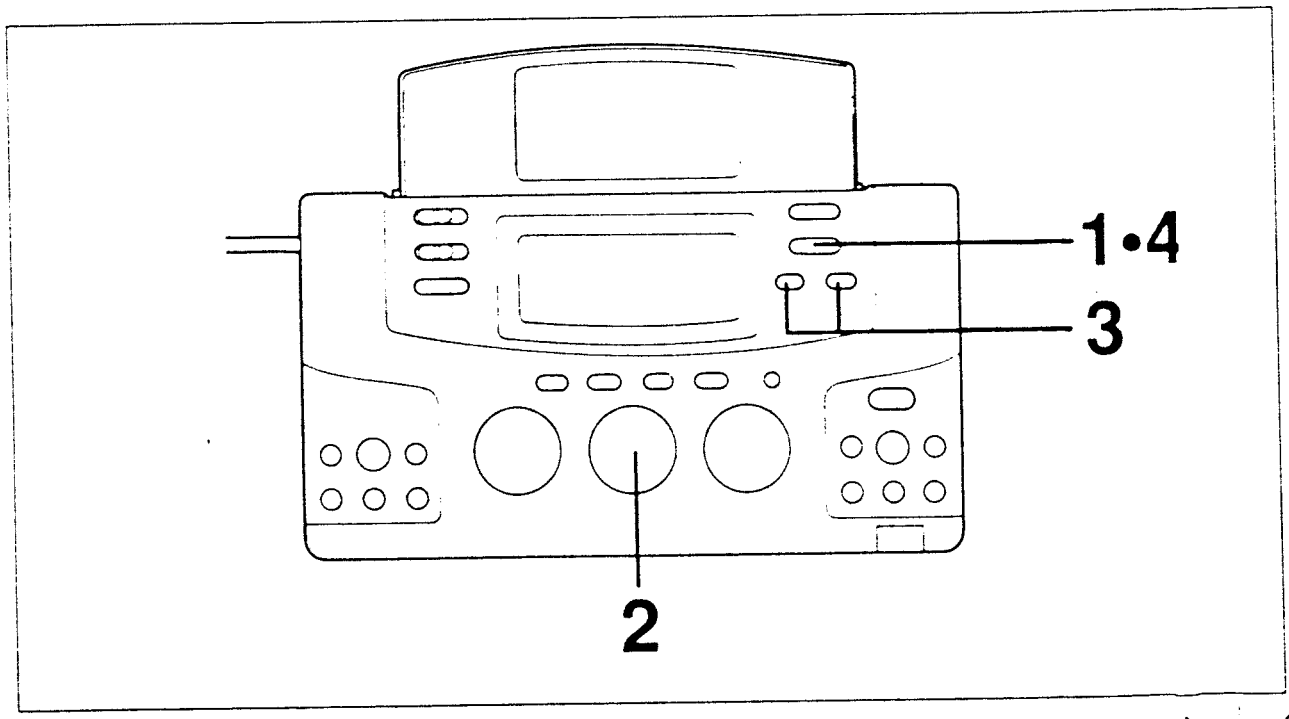
While the start-up compensation synchronises the start of both playback and recording unit, the stop-time compensation synchronises the stop of both units in order to prevent the scene to be edited from being cut prematurely.
To set the stop-time compensation, perform test edits repeatedly until the stop of both units is precisely synchronised.

- For editing where extremely precise stop synchronisation is not essential, this stop-time compensation does not need to be performed.

Stop-time Compensation Adjustment

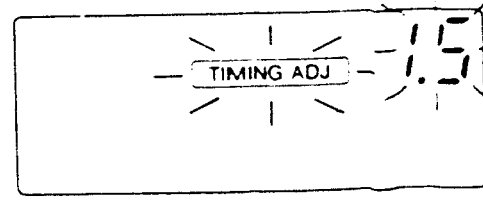
■ **NOTE:**

Unlike the start-up compensation, the stop-time compensation cannot be determined by recording the counter on the Editing Controller. It can only be determined by repeatedly trying and adjusting until it is set properly.



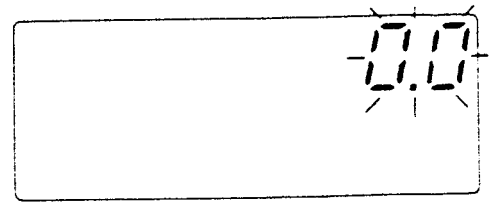
1 **Press the [TIMING ADJ.] Button.**

- The "TIMING ADJ." and the Counter Indications (start-up compensation value) flash.



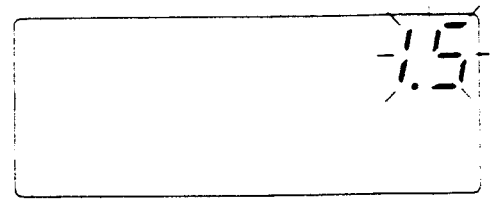
2 **Press the [CUT OUT] Button.**

- The Counter Indication "0.0" flashes.
  If the stop-time compensation value was previously set, the current value will be displayed in the counter.



3 **Enter the stop-time value using the [ADJUST + and –] Buttons.**

- The display example shown is for a stop-time compensation of "1.5" seconds.
- The stop-time value can be adjusted between "0.0" seconds and "3.0" seconds.



4 **Press the [TIMING ADJ.] Button.**

- The stop-time value has now been memorised.
  The stop-time value remains memorised until the batteries are exhausted or replaced, or until the value is newly set.

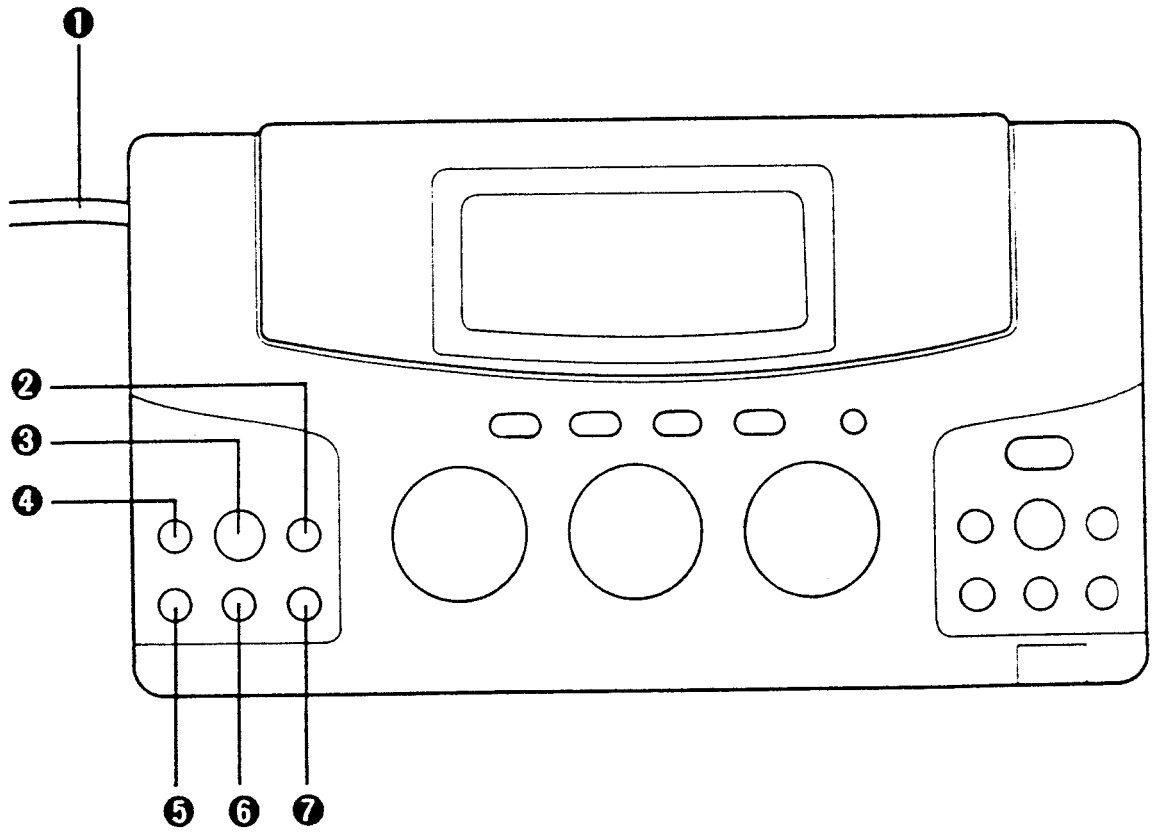
5 **Perform a test edit according to the steps described on page 12.**

6 **Play back the new recording to make sure that the final part of the edited scene is not cut off.**

7 **If the last portion of the edited scene is cut off, repeat steps 1–6 to adjust the setting.**

Controls and Components

[Controls for the Playback Unit]



❶ **Playback Unit Connection Cable**
Connect it to the Playback Unit's Edit Ⓔ Socket.

❷ **Fast Forward/Cue Button [FF]**
Press this button to wind the tape forward rapidly. When this button is pressed during playback, the tape will be played back at high speed in forward direction.

❸ **Playback Button [PLAY]**
Press this button to start playback.

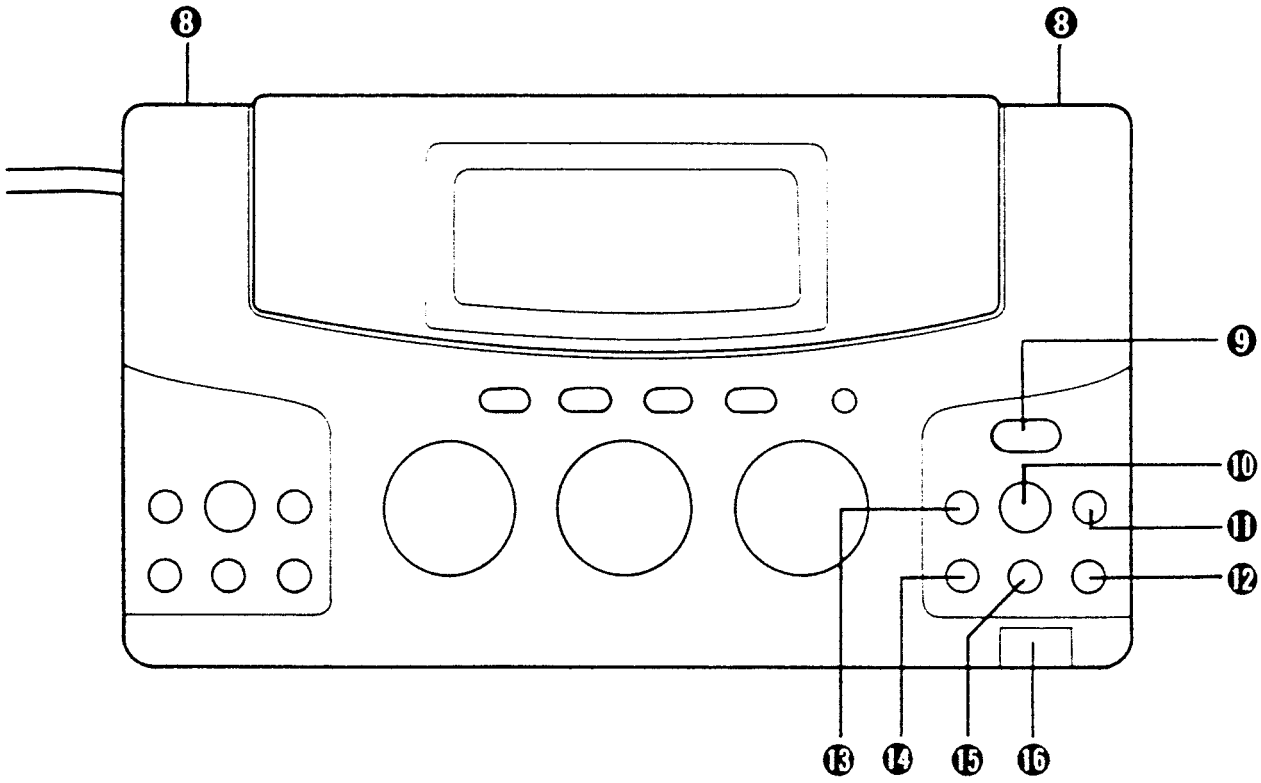
❹ **Rewind/Review Button [REW]**
Press this button to rewind the tape. When this button is pressed during playback, the tape will be played back at high speed in reverse direction.

❺ **Pause/Still Button [PAUSE/STILL]**
When this button is pressed during playback, the tape will be stopped in the still playback mode. Press it again to restart the playback.

❻ **Stop Button [STOP]**
Press this button to stop the tape movement.

❼ **Still Advance Button [STILL ADV.]**
After pressing the Pause/Still Button, the scene can be advanced one frame at a time with each press of this button. Keeping it pressed continuously advances the scene frame by frame.

[Controls for the Recording Unit]



⑧ **Remote Control Transmitter for the Recording Unit**
It transmits infrared signals to control the recording unit.

⑨ **Record Button [REC]**

⑩ **Playback Button [PLAY]**

⑪ **Fast Forward/Cue Button [FF]**

⑫ **Still Advance Button [STILL ADV.]**

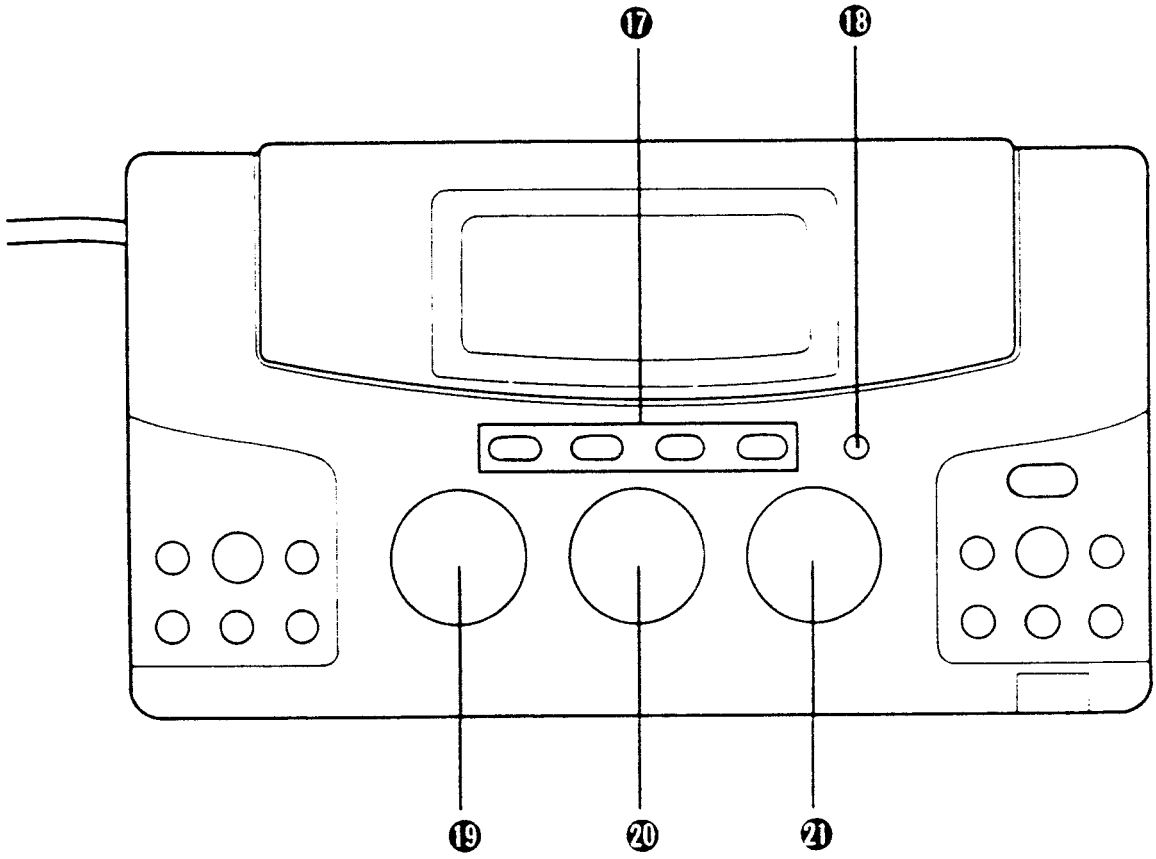
⑬ **Rewind/Review Button [REW]**

⑭ **Pause/Still Button [PAUSE/STILL]**

⑮ **Stop Button [STOP]**

⑯ **Remote Control Receiver for the Learning Function**
To be able to remote control the recording unit of a brand that cannot be selected, aim the remote control of the recording unit at this part and teach it the commands that are sent out by pressing the buttons. (See page 36 for details.)

[Editing Controls]



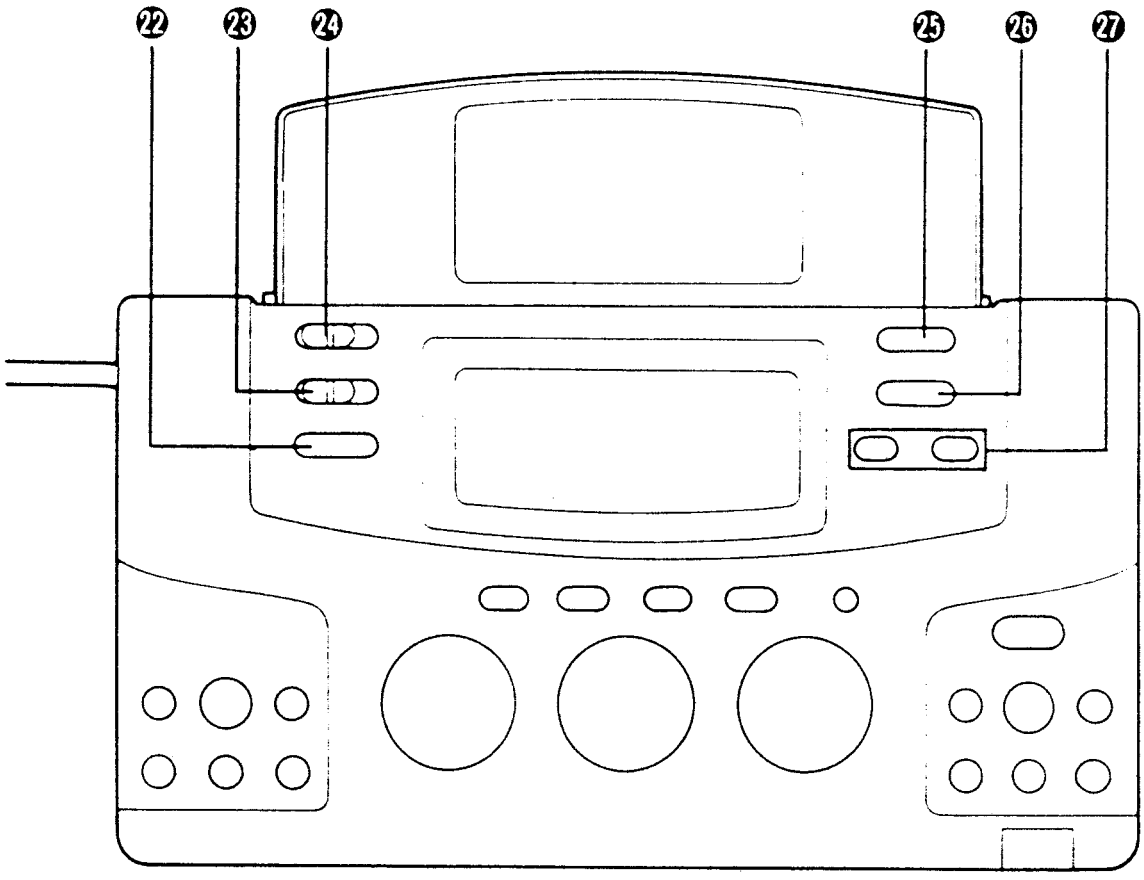
⑰ **Programme Buttons (1–4)**
Press any of these buttons to display the editing start and end points of the cuts programmed for editing. They can then be changed or cleared.

⑱ **Cancel Button [CANCEL]**
Press this button to cancel one or all of the programmed cuts.

⑲ **Edit Start Button [CUT IN]**
Press this button to set the starting point of a cut for editing.

⑳ **Edit End Button [CUT OUT]**
Press this button to set the end point of a cut for editing.

㉑ **Editing Button [EDIT]**
Press this button to start the editing operation. (The playback unit will start playback, and the recording unit will start recording.) Pressing this button during the editing operation will halt the editing.



㉒ **Remote Control Memory Button [MEMORY]**
This button can be used to memorise the functions of the buttons on the remote control of the recording unit which is not listed among the pre-programmed brands.

㉓ **Pause Mode Selector Switch [PAUSE]**
With this switch, the Editing Controller's function for releasing the recording pause mode can be matched to that of the recording unit.

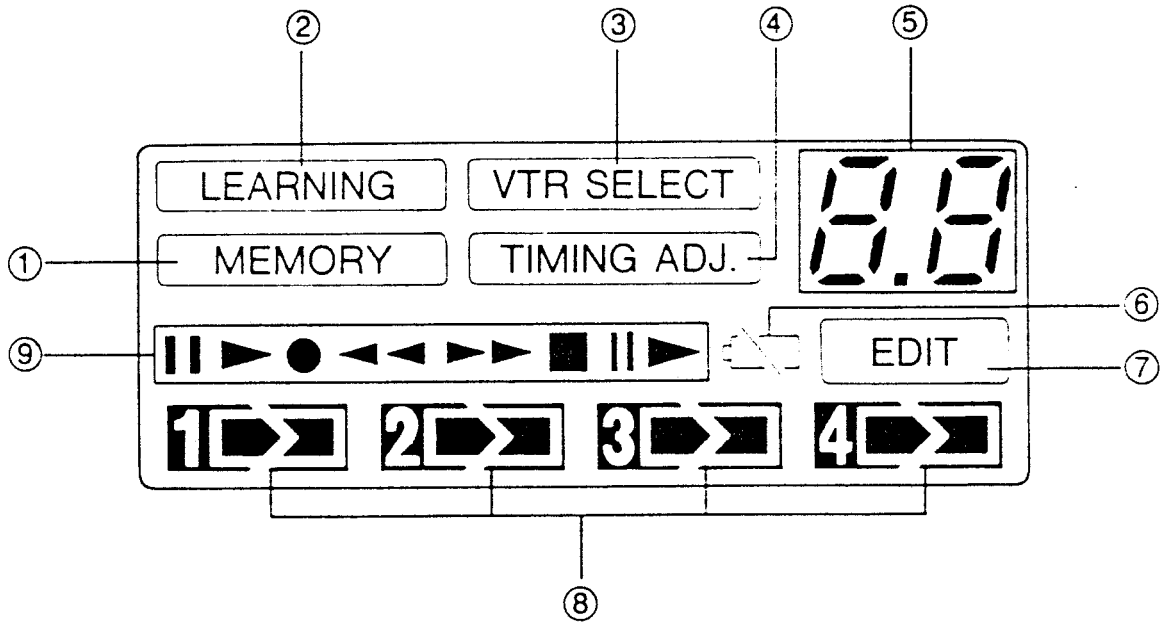
㉔ **VTR Remote Control Mode Selector Switch [VTR]**
When using a Panasonic VTR as recording unit, set this switch to the same remote control mode as that selected on the recording unit.

㉕ **VTR Brand Selection Button [VTR SELECT]**
Press this button if a recording unit of one of the pre-programmed brands is to be controlled. Then select the brand by pressing the + or – button ㉗.

㉖ **Timing Compensation Button [TIMING ADJ.]**
When cancelling the recording pause mode on the recording unit, there is a short delay before it actually begins recording. To adjust that delay time, press this button. The desired time can then be set with the + or – Button ㉗.

㉗ **+, – Buttons [ADJUST]**
These buttons are used to select the brand of recording unit used and to set the start-up and stop-time compensation value.

[Display Panel]



① **Remote Control Command Memorisation Indication "MEMORY"**
This indication is displayed during memorisation of the remote control commands.

② **Learning Indication "LEARNING"**
This indication is displayed when the Editing Controller is learning the functions of the recording unit's remote control.

③ **VTR Brand Selection Indication "VTR SELECT"**
This indication is displayed during VTR brand selection.

④ **Timing Indication "TIMING ADJ."**
This indication is displayed during the setting of the start-up and stop-time compensation value.

⑤ **Counter Indication/Error Indication**
The brand number of the recording unit, start-up and stop-time compensation value and error message numbers are displayed here.

⑥ **Battery Power Warning Indication**
This indication is displayed when there is no battery installed or when the batteries need to be replaced.

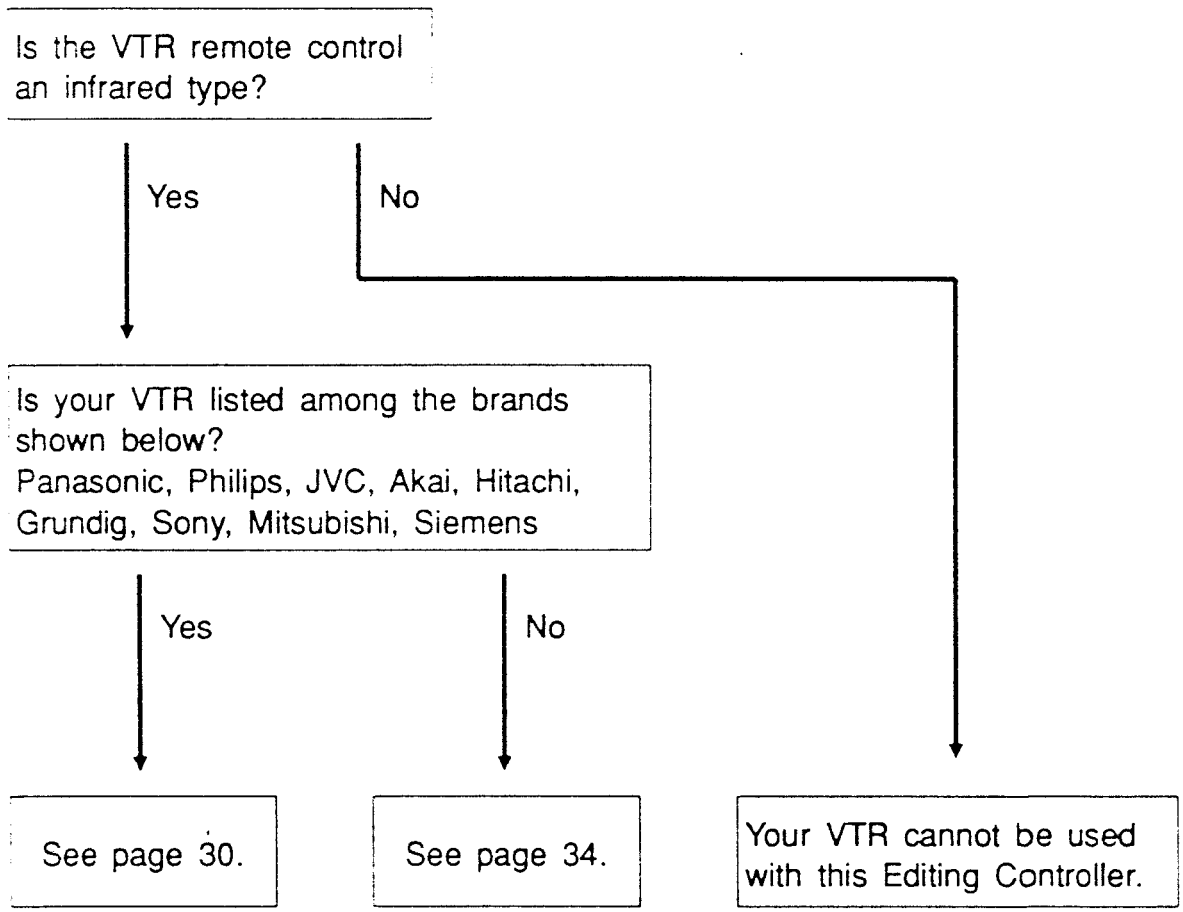
⑦ **Editing Indication "EDIT"**
This indication is displayed during editing.

⑧ **Editing Programme Number Indication**

⑨ **Indications for Operation of Playback Unit/Remote Control Command Memorisation Indication**

Remote Control System of the Recording Unit

Most VTRs that are equipped with infrared remote control can be remote-controlled from this Editing Controller.
Depending on the brand of VTR used, some adjustments may need to be performed.
The chart below shows the page where further information regarding the VTR to be used as recording unit can be found.


Is the VTR remote control an infrared type?
Yes
No
Is your VTR listed among the brands shown below?
Panasonic, Philips, JVC, Akai, Hitachi, Grundig, Sony, Mitsubishi, Siemens
Yes
No
See page 30.
See page 34.
Your VTR cannot be used with this Editing Controller.

Remote Control System of the Recording Unit (continued)

A. If the Recording Unit Is One of the 9 Brands Listed...

The Editing Controller is already programmed to control with its built-in remote control the 9 brands of VTRs listed below.

Panasonic (new), Panasonic (old), Philips, JVC, Akai, Hitachi, Grundig, Sony, Mitsubishi, Siemens

• If your VTR is not among the brands listed, see page 34.

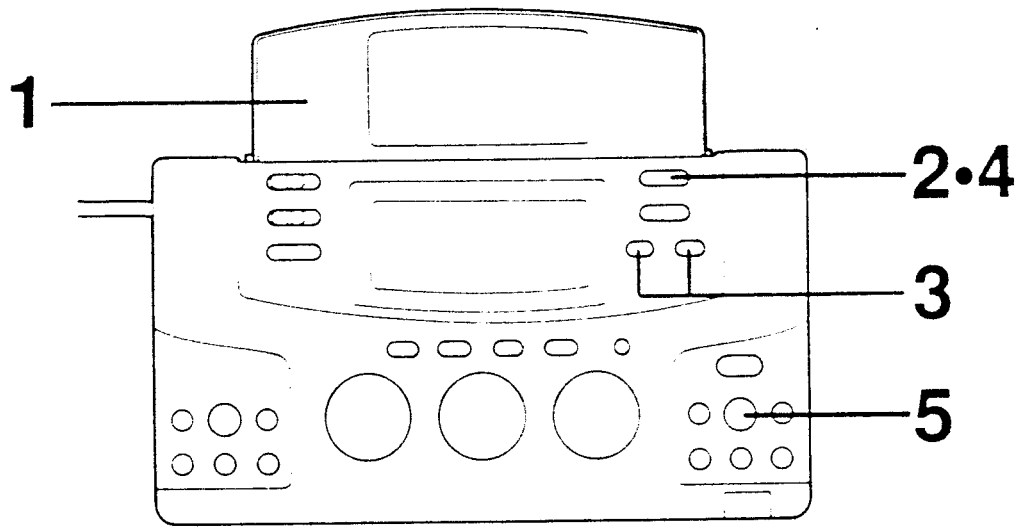
1 VTR Brand Number Setting

Determine the number for the remote control mode of your VTR in the chart below.

Brand Number Indication in the Display	Setting of the Remote Control Mode Selector Switch			Brand
	1	2	3	
01	new 1	new 2	new 3	Panasonic (new)
02	old 1	old 2	old 1	Panasonic (old)
03	VTR1	VTR1	VTR1	Philips
04				JVC
05				Akai
06				Hitachi
07				Grundig
08	VTR3	VTR3	VTR3	Sony
09	VTR1	VTR1	VTR1	Mitsubishi
10				Siemens

■ Notes:

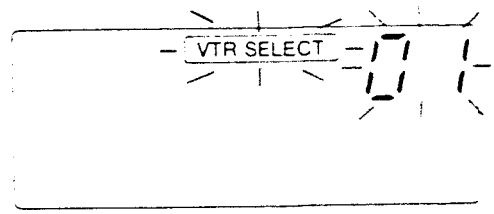
- There are some cases where certain models of the brands listed above may not be included among the Editing Controller's preset remote control commands. If you discover this to be the case, perform the steps to teach the Editing Controller the operations of your VTR's remote control (see page 34).
- There are two (new and old) remote control systems for Panasonic VTRs. When using a Panasonic VTR, it is recommended to first set to "01" (new). If it does not work normally, set to "02" (old).
- If you are using a Panasonic VTR, set the remote control mode selector switch on the VTR to "VTR1", "VTR2" or "VTR3".
- If you have a different brand VTR with a remote control mode selector switch, it should always be set to "VTR1" for editing. (However, for a Sony VTR, set it to "VTR3".)



1 Open the Cover.

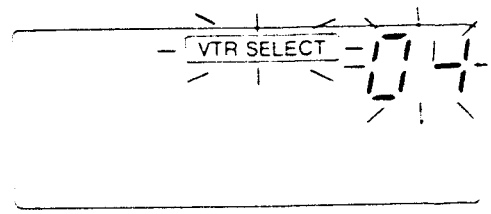
2 **Press the [VTR SELECT] Button to enter the brand selection mode.**

- The "VTR SELECT" Indication and the brand number will flash.
- To find out the brand number of your VTR, see the table on page 30.



3 **Press the + or – Button to select the brand number that matches the brand of your VTR, as shown in the table on page 30.**

- The display example shown is for a JVC VTR which uses brand number "04".



4 **Press the [VTR SELECT] Button.**

5 **Press the [PLAY] Button for the recording unit on the right side of this Editing Controller. Make sure that your recording unit starts to play back.**

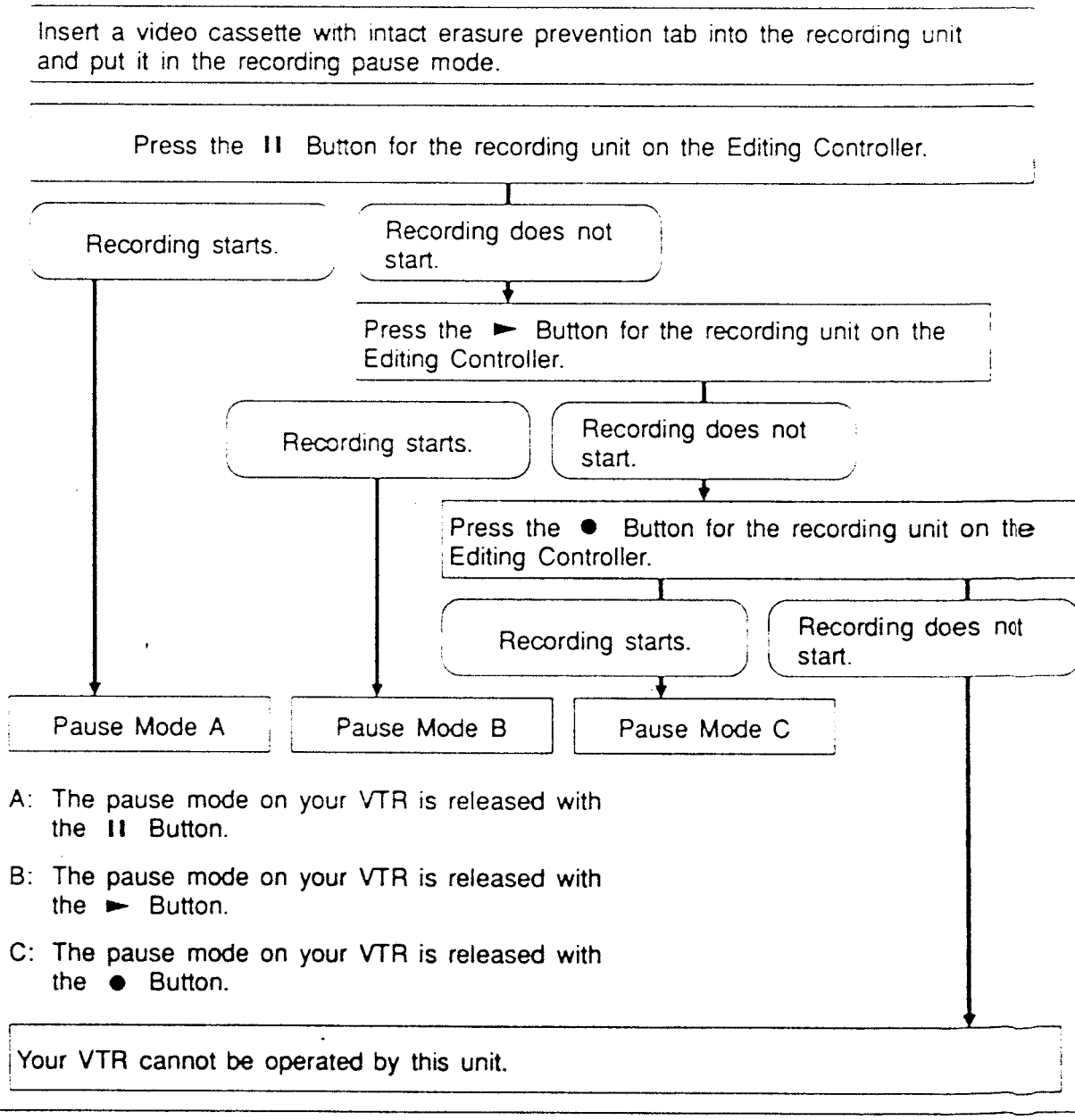
- If the recording unit does not operate properly, check the setting of the remote control mode selector switch of the recording unit (if equipped). If the recording unit still does not operate properly, perform the steps to teach the Editing Controller the commands of the recording unit's remote control (see page 34).

Remote Control System of the Recording Unit (continued)

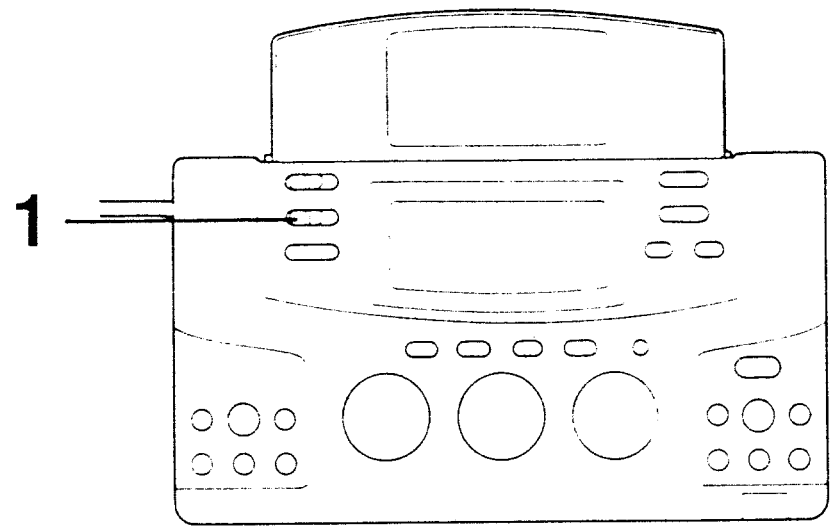
2 Pause Mode Setting

Before starting to edit, the recording unit must be put in the recording pause mode (recording standby mode). Then, to start editing, the recording unit's recording pause mode must be cancelled by the Editing Controller, and a signal to start recording be sent. Depending on the type of VTR used as recording unit, there are 3 different signals that can release the recording pause mode. Therefore, before you can edit, it must be determined which signal your VTR uses.

First, determine which button on your VTR releases the pause mode and starts the recording operation. Then, select the corresponding pause mode on the Editing Controller.


Insert a video cassette with intact erasure prevention tab into the recording unit and put it in the recording pause mode.
Press the II Button for the recording unit on the Editing Controller.
Recording starts.
Recording does not start.
Press the ► Button for the recording unit on the Editing Controller.
Recording starts.
Recording does not start.
Press the ● Button for the recording unit on the Editing Controller.
Recording starts.
Recording does not start.
Pause Mode A
Pause Mode B
Pause Mode C
A: The pause mode on your VTR is released with the II Button.
B: The pause mode on your VTR is released with the ► Button.
C: The pause mode on your VTR is released with the ● Button.
Your VTR cannot be operated by this unit.

Setting the Pause Mode



1 Set the Pause Mode Selector Switch to the pause mode (A, B, or C) determined by following the instructions on page 32.

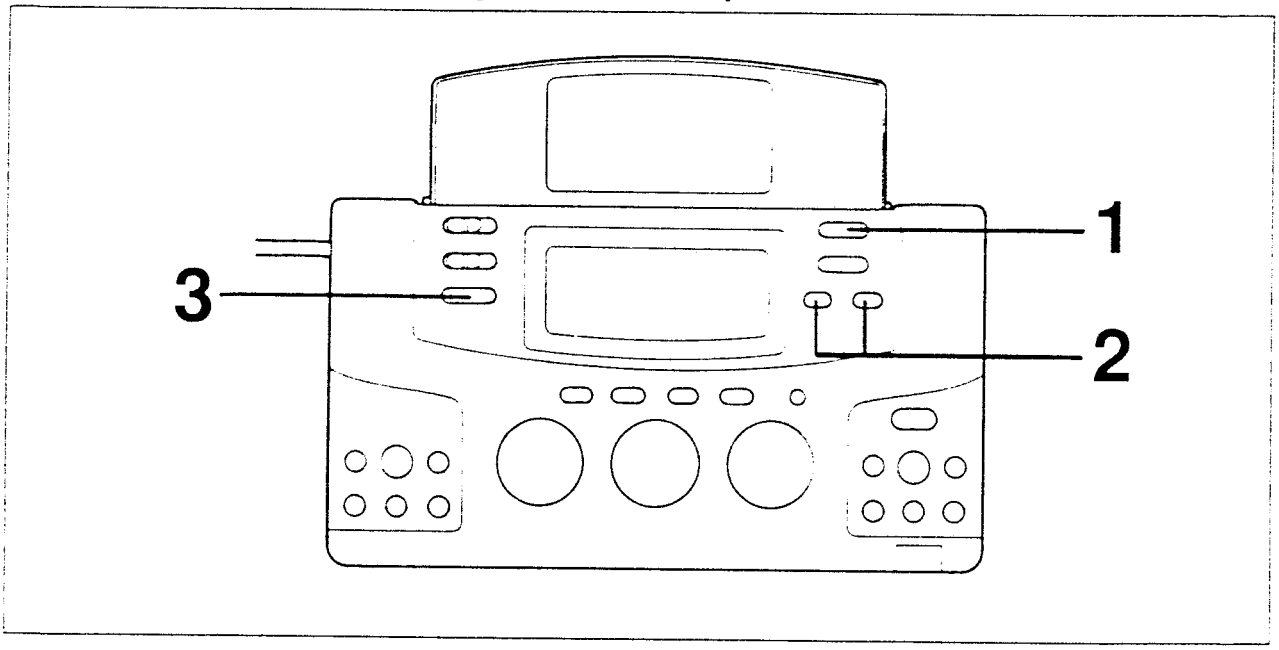
B. If the Recording Unit Is not Listed among the Pre-programmed Brands...

Even if your recording unit is not among the pre-programmed brands, if it can be operated by infrared remote control, it is possible to teach the Editing Controller the commands of the remote control.

■ To Be Able to Control the Recording Unit with this Editing Controller

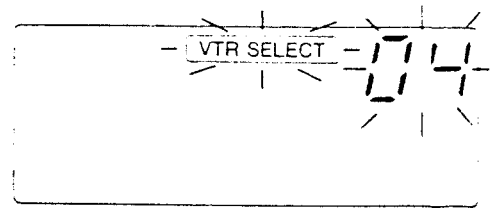
1. Teach the Editing Controller the necessary commands sent by pressing the buttons on the remote control (see "Learning Function" on page 35).
2. Put the recording unit in the pause mode (see page 32).

1 Teaching the Editing Controller the Commands Sent by Pressing the Buttons on the Remote Control (Learning Function)



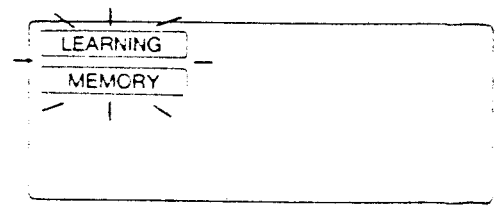
1 **Press the [VTR SELECT] Button to enter the brand selection mode.**

- The "VTR SELECT" Indication and the brand number will flash.



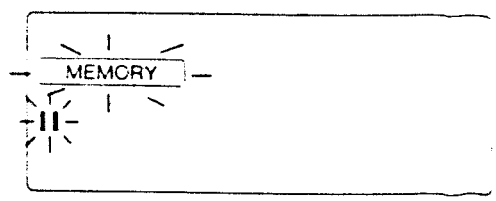
2 **Press the + or – Button several times until the "LEARNING" and "MEMORY" Indications are displayed.**

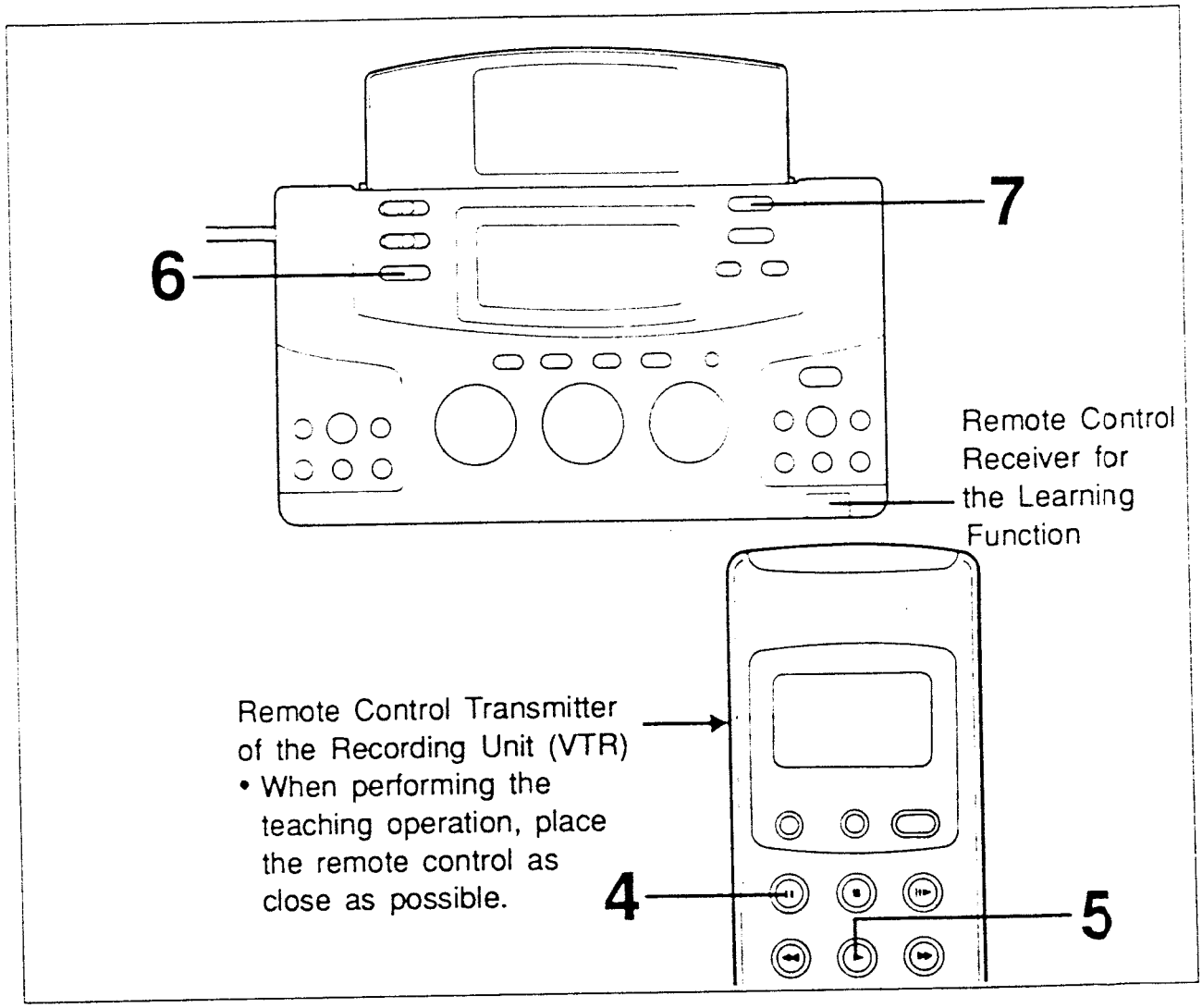
- The "LEARNING" and the "MEMORY" Indications will flash.



3 **Press the [MEMORY] Button to enter the remote control memory mode.**

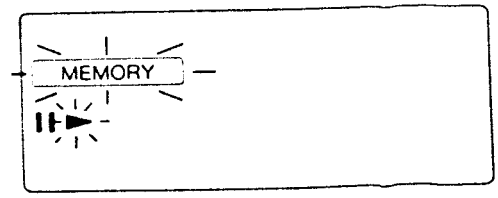
- The "MEMORY" and "▮▮" Indications will flash.



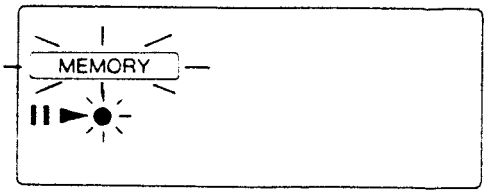

6
7
Remote Control Receiver for the Learning Function
Remote Control Transmitter of the Recording Unit (VTR)
• When performing the teaching operation, place the remote control as close as possible.
4
5

4 While the "❙❙" Indication is flashing, aim the remote control at the Remote Control Receiver for the Learning Function and keep the ❙❙ Button (Pause/Still) pressed.

• When the "❙❙" Indication stops flashing and remains lit, release the button. The "▶" Indication will now flash.

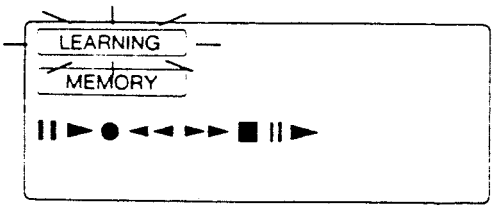


5 **While the ▶ Indication is flashing, press the ▶ (Playback) Button on the remote control.**



- When the ▶ Indication remains lit, release the button.
  Next, the " ● " Indication will flash.
- Teach the Editing Controller the remote control button commands in the following order while the corresponding indication is flashing: ● (Recording) → ◀◀ (Rewind) →▶▶ (Fast Forward) → ■ (Stop) → ❙❙▶ (Still Advance).
- If the remote control does not have a still advance button, perform the following operation steps 6 to 8 after teaching all commands up to the ■ Button (Stop).

6 **Press the [MEMORY] Button.**



- The "MEMORY" and ❙❙▶●◀◀▶▶■❙❙▶ Indications will appear together in the Display.
  The training procedure is complete.

7 **Press the [VTR SELECT] Button.**

- The Editing Controller is now back in the editing mode.

8 **Test each of the recording unit control buttons on the Editing Controller to make sure they operate properly.**

- If they do not operate properly, perform the training procedure one more time.

■ Notes:

- Do not press another button until the Indication for the current button has stopped flashing.
- Do not disconnect the Playback Unit Connection Cable from the playback unit while the teaching of the remote control commands is taking place.
- After the remote control commands have been taught, they will remain memorised until the batteries become exhausted or are removed.
- If "E0" or "E1" is indicated in the Display while performing the above steps, see page 40.
- After performing the training procedure, the remote control mode will remain the same as that selected while the training procedure was performed, even if the position of the Remote Control Mode Selector Switch is subsequently changed.

[2] Setting the Pause Mode (see page 32)

Cautions for Use

In order to use this unit properly and safely, be sure to follow the following cautions.

■ Cautions for handling this unit:

- Take care that no water, metal objects and inflammable material enter this unit.
- Do not try to reconstruct nor disassemble this unit.
- Do not place heavy objects on this unit.
- Do not damage the Playback Unit Connection Cable nor disassemble it.
- Do not drop this unit. Protect from strong vibration and shocks.

■ Cautions for Surroundings:

- Do not use this unit in the following places:
  - Places exposed to direct sunlight or near heaters.
  - Places with high humidity or oily smoke.
  - Places exposed to strong vibrations or shocks or other unstable places.
- Do not use it near a radio, because it could distort the radio reception.

■ Cleaning:

- Remove dust by wiping the unit with a soft cloth.
- When using a chemically treated cloth for cleaning, carefully follow the instruction for its use.
- For persistent stains, clean with a cloth moistened with water and mild detergent. Then wipe with a dry cloth.

■ In Case of Abnormal Operation:

If abnormal operation occurs, or if some foreign matter enters this unit, immediately disconnect the Playback Unit Connection Cable and consult qualified service personnel.

Before Requesting Service

Before requesting service, please check the following points again.

The Display Panel does not light up.

- The playback unit is not turned on.
- The Playback Unit Connection Cable is not connected.

The " ⚠ " Indication in the display panel is flashing.

- The batteries are not inserted or they are exhausted.

Playback does not start when the [PLAY] Button is pressed.

- The playback unit is not turned on.
- The tape has reached its end.
- The Playback Unit Connection Cable is not connected.

Recording does not start when the [EDIT START/STOP] Button is pressed.

- The recording unit was not put in the recording pause mode before pressing the Editing Button.
  → Put the recording unit in the recording pause mode.
- The remote control mode or the pause mode has not been programmed properly into the Editing Controller.
  → Programme them correctly.
- The remote control functions of the recording unit have not been memorised with the learning function.
  → Input these functions into the Editing Controller correctly.
- The brand number for the VTR used is not selected correctly.
- The recording unit and the playback unit are not properly connected.

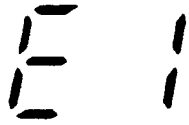
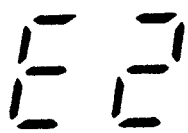
Editing does not start at the specified starting point.

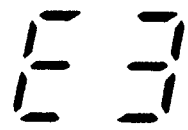
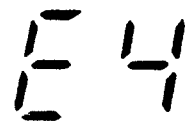
- An unrecorded section of tape may exist just prior to the specified starting point.
  → There must be at least 10 seconds of recorded material on the original tape prior to the starting point of the section you want to transfer.

Start-up and stop-time compensation cannot be performed.

- When performing the Programme Editing by using a playback unit with a 4-digit counter (mechanical counter), the start-up and stop-time compensation will not function even if it has been set.

Error Codes Shown in the Display Panel

Error Indication	Cause/Remedy
 Teaching the Editing Controller the VTR's Remote Control Commands.	The button (for the function to be memorised) on the recording unit's remote control was pressed before the corresponding Indications was flashing in the Editing Controller's Display. • After the Indication for a particular function starts flashing, press the corresponding button on the remote control. A button press was not properly received because the Editing Controller's remote control receiver is exposed to direct sunlight. • Do not expose the Editing Controller's receiver to strong light. • Do not use any other remote control equipment while training the Editing Controller.
 Teaching the Editing Controller the VTR's Remote Control Commands.	When trying to teach the "▶" function to this unit, it cannot read the remote control signal because it contains excessive information. • The signals of the remote control being used cannot be properly decoded.
 During Programme Editing.	The tape in the playback unit has reached its end during the editing. • Editing stops at the end of the tape. A button on the playback unit or on the Editing Controller was pressed during the editing. • The editing will be interrupted in the middle. When the [EDIT START/STOP] Button is pressed again, the editing will start from the beginning again. The editing starting or end point was not found and the tape went past it. • Recheck the settings for the starting and end points. Reenter them if necessary.

Error Indication	Cause/Remedy
 Changing Programmes. Programming.	The Edit Start Button was pressed while the playback unit was in a mode other than the play, or still advance mode. • The Error Indication will flash for approx. 2 seconds. It is not possible to programme or change the edit starting point during fast-forwarding or rewinding of the tape.
 Programming.	The time between the specified starting and end points is less than one second. • The time must be one second or more. Re-programme the start and end points. The editing end point is before the starting point. • Be sure to set an end point that is after the starting point.

Specifications

Power Source:	DC 5V
Power consumption:	0.2 W
Dimensions:	188 (W) x 36 (H) x 105 (D) mm
Weight:	Approx. 280 g (without battery)
Standard Accessories:	Storage Case

The VW-EC1E is equipped with a microprocessor. When connecting it to the playback unit, distortion and noise may occur and the playback unit and the Editing Controller may not work correctly. If this is the case, first turn off the power of the connected playback unit before using it again.